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A1 8 a plurality of line cards coupled to the plurality of switch cards, the plurality of line cards
9 to interface the plurality of switch cards with traffic coming in and out of a plurality of physical
ports.

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A2 3 24. (Amended) An apparatus for cell replication comprising:
4 means for directing data traffic; and
5 means for controlling the means for directing, the means for controlling coupled to the
6 means for directing comprising a plurality of signal inputs and a plurality of signal outputs and
7 configured to provide control signals to the means for directing, the plurality of signal inputs
8 being requests for data transmission through the means for directing, and the plurality of signal
9 outputs being grants to the requests, data for which a request for transmission is granted by the
means for controlling is replicated and processed through the means for directing to a destination
slot and to a backup destination slot according to software configurable mapping information.

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A3 2 33. (New) A machine-readable medium that provides instructions, which when
3 executed by a machine, cause said machine to perform operations comprising:
4 receiving a request for data transmission through a crossbar and a corresponding mapping
5 information, the mapping information received by the crossbar and received from one of a
6 plurality of software configurable slot remap registers, the mapping information indicative of a
7 destination slot and a backup destination slot to which the data is to be transmitted; and
8 replicating the data by transmitting the data to the destination slot and to the backup
destination slot when the data arrives at an input slot of the crossbar.

1 34. (New) The machine readable medium of claim 33 further comprising determining
2 whether the destination slot and the backup destination slot to grant the request are available, the
3 availability determined by a scheduler.

1 35. (New) The machine readable medium of claim 34 further comprising transmitting
2 a control signal to the crossbar once availability is confirmed, the control signal transmitted by
3 the scheduler and indicative of the availability of the destination slot and the backup destination
4 slot.

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- 1 36. (New) The machine readable medium of claim 35 further comprising sending an
 - 2 acknowledgment back to a source of the request.
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